

(FILE 'HOME' ENTERED AT 07:49:19 ON 14 MAY 2004)

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT
07:49:50 ON 14 MAY 2004

L1 0 S (2.7.6.1 OR (RIBOSE-PHOSPHATE ADJ PYROPHOSPHOKINASE) OR (PRPP
L2 0 S (2.7.6.1 OR (RIBOSE-PHOSPHATE (W) PYROPHOSPHOKINASE) OR (PRPP
L3 1 S ((5-PHOSPHORIBOSYL-1-PYROPHOSPHATE (W) SYNTHETASE) OR (5-PHOS
L4 0 S ((PYROPHOSPHORIBOSYLPHOSPHATE (W) SYNTHETASE) OR (RIBOPHOSPHA

FILE 'REGISTRY' ENTERED AT 08:03:23 ON 14 MAY 2004

L5 0 S (PRPP(W)SYNTHETASE)/CN
L6 1 S 9015-83-2

FILE 'MEDLINE, AGRICOLA, CAPLUS, BIOSIS, EMBASE, WPIDS' ENTERED AT
08:06:19 ON 14 MAY 2004

L7 1 S L6 AND GOSSYPPII
L8 150 S L6 AND PURIF?
L9 90 DUP REM L8 (60 DUPLICATES REMOVED)
L10 2 S L9 AND (YEAST OR FUNGI OR FUNGUS)

FILE 'CAPLUS' ENTERED AT 08:13:09 ON 14 MAY 2004

L11 E POMPEJUS M/AU 25
3 S (E4) AND (GOSSYPPII)
E SEULBERGER H/AU 25
L12 4 S (E3 OR E4) AND (GOSSYPPII)
E HOFFKEN H/AU 25
L13 1 S (E3 OR E4 OR E5) AND (GOSSYPPII)
E DOVAL J L/AU 25
E DOVAL J/AU 25
L14 0 S (E3 OR E6) AND (GOSSYPPII)
E JIMENEZ A/AU 25
L15 1 S (E3 OR E39) AND (GOSSYPPII)
E GARCIA MARIA/AU 25
L16 0 S (E3 OR E4 OR E8 OR E11) AND (GOSSYPPII)
L17 0 S (E3 OR E4 OR E8 OR E11) AND (GOSSYPPII)
L18 1 S (L11 AND L12 AND L13 AND L15) AND L6
L19 1 S (L11 OR L12 OR L13 OR L15) AND L6

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SRNT

Type	Hits	Search Text	DBs	Time Stamp
1 BRS	2	6391603.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 15:24
2 BRS	34	phosphoribosylpyrophosphate adj synthetase	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 16:01
3 BRS	14013	2.7.6.1 or (ribose-phosphate adj pyrophosphokinase) or (PRPP adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (PPRibp adj synthetase) or (PP-ribose near3 synthetase) or (5-phosphoribosyl-1-pyrophosphate synthetase) or (5-phosphoribose adj pyrophosphorylase) or (5-phosphoribosyl-alpha-1-pyrophosphate adj synthetase) or (phosphoribosyl-diphosphate adj synthetase) or (phosphoribosylpyrophosphate adj synthase) or (pyrophosphoribosylphosphate adj synthetase) or (ribophosphate adj pyrophosphokinase) or (ribose-5-phosphate adj pyrophosphokinase) ((2.7.6.1 or (ribose-phosphate adj pyrophosphokinase) or (PRPP adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (PPRibp adj synthetase) or (PP-ribose near3 synthetase) or (5-phosphoribosyl-1-pyrophosphate synthetase) or (5-phosphoribose adj pyrophosphorylase) or (5-phosphoribosyl-alpha-1-pyrophosphate adj synthetase) or (phosphoribosyl-diphosphate adj synthetase) or (phosphoribosylpyrophosphate adj synthase) or (pyrophosphoribosylphosphate adj synthetase) or (ribophosphate adj pyrophosphokinase) or (ribose-5-phosphate adj pyrophosphokinase)) and gossypii) and (pompejus.in. or seulberger.in. or hoffken.in. or doval.in. or jimenez.in. or garcia.in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 16:08
4 BRS	6	(5-phosphoribosyl-alpha-1-pyrophosphate adj synthetase) or (phosphoribosyl-diphosphate adj synthetase) or (phosphoribosylpyrophosphate adj synthase) or (pyrophosphoribosylphosphate adj synthetase) or (ribophosphate adj pyrophosphokinase) or (ribose-5-phosphate adj pyrophosphokinase)) and gossypii) and (pompejus.in. or seulberger.in. or hoffken.in. or doval.in. or jimenez.in. or garcia.in.)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 16:09
5 BRS	49	(2.7.6.1 or (ribose-phosphate adj pyrophosphokinase) or (PRPP adj synthetase) or (phosphoribosylpyrophosphate adj synthetase) or (PPRibp adj synthetase) or (PP-ribose near3 synthetase) or (5-phosphoribosyl-1-pyrophosphate synthetase) or (5-phosphoribose adj pyrophosphorylase) or (5-phosphoribosyl-alpha-1-pyrophosphate adj synthetase) or (phosphoribosyl-diphosphate adj synthetase) or (phosphoribosylpyrophosphate adj synthase) or (pyrophosphoribosylphosphate adj synthetase) or (ribophosphate adj pyrophosphokinase) or (ribose-5-phosphate adj pyrophosphokinase)) and gossypii	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/05/13 16:12



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#15 Search gossypii and synthetase	08:27:52	<u>2</u>
#13 Search gossypii and synthase	08:27:18	<u>3</u>
#11 Related Articles for PubMed (Select 14020753)	08:25:14	<u>210</u>
#7 Search gossypii	08:24:53	<u>111</u>
#9 Search #7 and purification	08:24:18	<u>13</u>
#6 Related Articles for PubMed (Select 2169413)	08:22:39	<u>126</u>
#4 Search #1 AND purified	08:22:08	<u>28</u>
#2 Search #1 AND purification	08:21:24	<u>36</u>
#1 Search 2.7.6.1[EC/RN Number] Limits: ignored	08:09:16	<u>379</u>

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May 12 2004 06:43:50

IUBMB Enzyme Nomenclature

EC 2.5.1.9

Common name: riboflavin synthase

Reaction: 2 6,7-dimethyl-8-(1-D-ribityl)lumazine = riboflavin + 4-(1-D-ribitylamino)-5-amino-2,6-dihydroxypyrimidine

Other name(s): heavy riboflavin synthase; light riboflavin synthase; riboflavin synthetase; riboflavine synthase; riboflavine synthetase

Systematic name: 6,7-dimethyl-8-(1-D-ribityl)lumazine:6,7-dimethyl-8-(1-D-ribityl)lumazine 2,3-butanediyltransferase

Comments: A flavoprotein (riboflavin).

Links to other databases: [BRENDA](#), [EXPASY](#), [KEGG](#), [ERGO](#), CAS registry number: 9075-82-5

References:

1. Plaut, G.W.E. Studies on the nature of the enzymic conversion of 6,7-dimethyl-8-ribityllumazine to riboflavin. *J. Biol. Chem.* 238 (1963) 2225-2243.
2. Plaut, G.W.E. and Harvey, R.A. Riboflavin synthetase. *Methods Enzymol.* 18B (1971) 527-538.
3. Wacker, H., Harvey, R.A., Winestock, C.H. and Plaut, G.W.E. 4-(1'-D-Ribitylamino)-5-amino-2,6-dihydroxypyrimidine, the second product of the riboflavin synthetase reaction. *J. Biol. Chem.* 239 (1964) 3493-3497.

[EC 2.5.1.9 created 1972]

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